Radio Cassette-Corder

ィマ・ホサ。ゥ ム

Operating Instructions (reverse side)

WALKMAN 9H11J+

WALKMAN †O Sony、ス・qェコェ゙・Uーモシミー WALKMAN is a registered trademark of Sony Corporation.

WM-GX322/GX320

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Printed in China



ィマ・ホ・サセ*ノ*ェコヲw・™ェ`キNィニカオ

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- スミ、ナヲb・サセ オウqケqキスョノ・エカ}セ ゚。M・Hィセ、 qタサ-
- ı`‡N
- スミ、ナーェコオカqヲaィマ・ホタΥタケヲ。ヲュセ ™ヲュカ 。ヲュセ ヲュャ こ
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- スミォOォ Aキ コュオカq。 Mィマアzッ倏・ィ ス ャノェコチnュオ。 Mィテ、ュシv ナTゥPウ コ、H-

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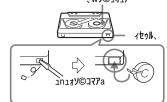
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- トオァi
- → スミかネイマ・ホアタッ コ Sony AC-E30HG・谺ッケマキスツ牾オセケ。]・ シェ™アa。^-
- ・ゥ・ィ 谺yケqキスツ牾オセケョノ。Mスミョウ エ。タYゥ゙。Mアモ、յュnゥヤァ雹 qスu-
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ィマ・ホォeェ`キNィニカオ

- スミ、ナアN・サセ mゥ スェTMェ Mゥホィ ァ・スョg。 Nキ・ヲゕケミィ F。 Nシ鯊 曇 NォBイO。 Nセ トタサ、ァウB。 Mゥホテ 。 、 哲コイTィョ ゥフ-
- スミ、ナアNタYタケヲ。ヲユセ ™ヲユカ 。ヲユセ uト カヲb・サセ W。M・ Hイセオ Uチ茖MセノュP、ュ・イュnェコケqヲタョ モ-
- スミ、ナイマ・ホカWケL 90、タトチェココマアa。Mー」オロサンコnェ ノカ。ウsトオカホソ©コオー
- すーイセ、 ソ◎。Mスミィ U A コアゥM B コアェコィセゥル、 ュY、Sュ n・ホクモコマアaィモソ◎ュオ。Mスミ・ホスラアaカKラ セゥル、 ハ、fw)®ュネュン



- ◆ ヲpɪG・サセ ノカ。・シィマ・ホ。Mヲbクヒ、Jコマアaォe。Mスミ・©アNィ荳mゥ オェャコAケwシ X、タトチ-
- InイMシ萱 。Mスミ・ホナル、F、ヨウ¥、、ゥハヤ セッェコウn・ヤォ ソ。
 M、J・iィマ・ホーsコ NィTェoゥMオ}トタセッ-

ヲpɪGアzヲbィマ・ホ Walkman ϶/ヲウ・ テーンゥホーンテD。 MスミゥMウ フェ コ Sony クgセPーモチpィt-

• 7W1v2d9 FM: 87.6-108 MHz.]•_+ w.

- 87.5-108 MHz。] ‡N、jァQゥMィFッSェ ヤァB。^ 65.0-107.9 MHz。] IFシレ。^ 87.6-107.9 MHz。] {茹L- a。^
- AM: 530-1710 kHz。]·_t w。N、、t wかMオnt w。^
 526.5-1606.5 kHz。] tN、jアQかMィFッSェ ヤ7B。^
 531-1602 kHz。] r 並L- a。^
- ケq‡λ
 3 ∨ ιλャッケq¬タ R6 (AA) × 2。™• ゥ。ιλャッ 3 ∨ ケq‡λ
- ●・¥イvy飜X

፲ュチnセケ: 110mW + 110mW。]カネュュゥ GX322°^ タYタケラ。テュセ : 5mW + 5mW°]テb 10% ¡`ソモェi・ 「ゥuɪャɪp、U。^

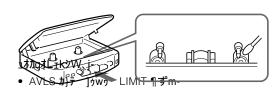
- 、リ、o WM-GX322:116×89×39 mm (シe。 ™-エ。 ™イ゙)
- $\cdot\,] \dag A \dag \quad X \dot{9}, \\ \langle 9 M 7 7 7 \rangle \\ WM-GX320: 116 \times 89 \times 39.5 \text{ mm (} \dot{9}e, \\ ^{TM}-I, ^{TM} f)$
- •]pAp Xウ。、タゥMアアィ
- WM-GX322 : † 190 g
 - † 265 g •]†**Αታ**q**7ታኃM**、**@1−⊒₹7**a WM-GX320 : † 175 g
 - † 250 g •]†A∱q₹∮nM、@1-⊐₹₽a
- ェ^{™・・・*}ナ鮹nタYタケヲ。ヲユセ ホヲユカ 。ヲユセ]1。^。™ト箜aaM。]1。^。 ^{™・*}ナ鮹nウチァJュキ。]1。^。™ウチァJュキay。]1。^

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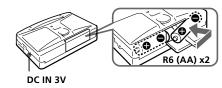
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- · ソスTクヒ、Jィ篋` R6。]AA、リ、o。^ケqヲタ-
- ヲpェGケqヲタケq、Oナワョz。Mスミァ オウメヲウケqヲター コマアaゥ オス雜qョt-
- ◆ イMシ崑Yタケヲ。ヲュセ ™ヲュカ 。ヲュセ コエ。タY-
- コマタYナヲ、F-・ホオyナルイMシ萱ッゥホーsコ コエヨテアイMゥ、ァ-



キヌウニ、uァ@

ュnクヒ、Jケqヲタ



7qヲダケリゥR 。]ェ	P∃/シニ。^	(EIAJ*)
	Sony ፲Pゥ//ታqヲタ LR6 (SG)	Sony R6P (SR)
† †	22	7
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* イフセレ EIAJ。]Electronic Industries Association of Japan。

- ‡sケqヲ፞፟፟፟፟ኇァ ォ、ァ-
- ョレセレ・サセ コセ・ア@ェャェp、」 ラP。 MケqヲタケリゥR・iッ狠Yオu ャーィマ・サセ oエァウフィホゥハッ(弊 Mウフラnィマ・ホリャゥハケqヲタ-
- ₱pɪGケqヲタイーサ¥・エカ}、F。Mスミォ マ・ワカiヲ讎wクヒー

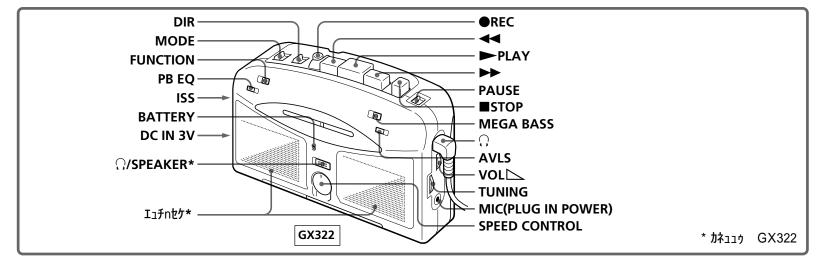


ュnイマ・ホ・ ウ。ケqキス

- ヨa・ホウqキス。JアN AC-E30HG・谺yウqキスツ牾オセウ。]・シェ™アa。^
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- AC-E30HG エコウWョ谿レセレヲUヲaーマヲモイァ。MヲbチルカR、ァォeスミョ ヨャdアzゥメヲbヲaーマェコケqタ」ゥMI。タソァホェャ-

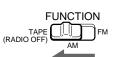


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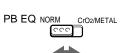


シスゥ マアa

1 7N FUNCTION カ}テ]ウwゥ TAPE°]RADIO OFF。^ラザm-



2 ₃レセレコマアaテ™ォャウ]ウw PB EQ。]ゥ オァ。ソナセケ。^ カ}テ



3 /L, J, @1-⊐₹₽a1テォ ► PLAY チ





□n オ ボウ]ゥw -ア、 オ* ■ STOP チ ァヨカiゥホュヒアa** ▶ ゥ ホ ◀ チ ツスュァ DIR カ}テ シスゥ @ヲウィ箝ア ア N MODE カ}テ]ゥwゥ → ヲずm

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์ ว र アaィォィ	゙ぢYョノ。Mゥメォ	1 ►	PLAY f	荐ローバシ	u。]ヲロ-ハテ
ヤ・¥ツ炸	樂^				

- **テ ヨカiゥホュヒアa
- タヒャdコマアaィォアa、隕Vィテセレヲケソ り▶▶ ゥホ ◀◀-
- Y ヲゎカiアaゥホュヒアaァケイラ、ァォ兒」カi、@ィBセ・ァ@・サセ Mケqヲタア Nィウウta モ-スミーネ・イォ ■ チ

アN () / SPEAKER カ}テ]ウwゥ SPEAKER ¶ずm-チnュオア Nアqエュチnセクシス・ X。MヲモアqタYタケヲ。ヲュセ ™ヲュカ 。ヲュセ ・、」ィつnュオ-ヲbィマ・ホエュチnセケョノ。MAVLS ゥM MEGA BASS・¥ッ爨ュー_ァ@・ホー

ュnヲローハュュイ フ、jュオカq

ın₁ AVLS •¥ッ爍MスミアN AVLS }テ]ウwウ NORM ヲずmIJ• 7

- ・ ユハツ毎おり オュア。MスミアN DIR カ}テ]ウwウ
 → カホ ► ヲずm・コハソ ワコマアa、隕V。MスミアN MODE カ}テ]ウwゥ → ヲずm・Hシスゥ @ヲウィ箝ア。MゥホアN MODE ウ]ウwゥ → ヲずm。
- M、マスニシスゥ 箝ア
 コハシWアjイ゙ィ「エコァCュオュオナT。MスミアN MEGA BASS カ}テ]ウ
 wゥ MAX ゥホ MID ヲずm-
- I ●アN AVLSカ}テ]ウwゥ LIMIT¶ザmョノ。J
- MEGA BASS aliG1-7C-
- ヲpェGュォァCュオチnュオ・「ツuウホ、」テュウw。MスミスユァCュオカq• スミ、ナヲbコマアaィォアaョノ・エカ}コマアaソオ-

スユク`ゥ オウtォラ

7z·i·H7bt -+25% 1 -20% ™⊐スdウ ⊐ឫ ワゥ オウtォ ラ-

ヲV・エツ紙ル SPEED CONTROL アロカs。]スユァCウtォラ。^ゥホヲV・kツ紙ル SPEED CONTROL アロカs。]スユーエウtォラ。^-ュnォたニィざカウqウtォラョノ。MスミアN SPEED CONTROL アロカsツ爲う、カ。ヲずm-

オウtォラ	ッ牴パアロカs
Cウt	Iツ。ミ、隕V
∃ウt	エツ。マ、隕V
カウqウtォラ	ヲワ、、カ。ヲずm

・、」ッ爭ホ SPEED CONTROL アロカsァ ワソ©ュオウtォラ-

ナ・ヲヤュオセ ヲ]ャータソタケヲ。ヲュセ 「Mヲュカ 。ヲュセ ノ スu-_ FM、ムスuェコァ@・ホ。Mァソィマヲbィマ・ホエュチnセケョノ。M、] スミウsアオヲnタソタケヲ。ヲュセ 「Mヲュカ 。ヲュセ 。]GX322°^

1 アN FUNCTION カ}テ]ウwゥ AM ◎ホ FM ¶ず m-



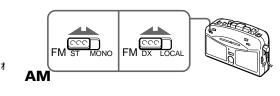
2 גז, J‡Qナ・ェコケq・x-



コnァ スシsシスアオアヤョトェG アャナ・ FM グ・リョノ。Mスミゥヤェ Yタケア。ヲユセ ™アユカ 。ヲユセ uゥホスユグ FM ST/MONO ゥホ FM DX/LOCAL カ}テ

ヲャナ・AM ケ`・リョノ。Mスミァ ワ・サセ ツヲV-

FM





ヲpɪGヲbクヒ、Jアaɪ ソシミテアァュココマアaョノヲャታ・シsシスヲウセクチn。Mスミィ Xコマアa-

ソ©ュオ

1 เ.、J、@イー TYPE เ.]เกซ่ๆ。^コマアa。MアNアzュ nソ©ュオェコュアエซ・ -

2 アN DIR カ}テ]ウwゥ ► ヲずm-DIR カ}テ]ウwゥ ◀ ヲずmョノ。M、」ッ爿 ● REC チ DIR



3 _n7qラャュオセ ©ュオ アN FUNCTION カ}テ]ウwゥ AM ◎ホ FM ¶ ず



ınアqウチァJュキソ©ュオ アN FUNCTION カ}テ]ゥwゥ TAPEº]RADIO OFF。^ヲずm-



ın7qウチァJュキソ©ュオ アNェ™アaェコウチァJュキウsアオィ MIC°]PLUG IN POWER。^I。、1-



ℶnシネーアソ©ュオ

ヲbソ©ュオョ/アN PAUSE カ}テ]ウwゥ bタY、隕V。Mソ©ュオア Nシネーア-ュnトト ©ュオ。MスミアN PAUSE カ}テ]ウwゥ bタYェ コャロ、マ、隕V-



ın-7、 ©ı**才**



т...П

- I」・り • ュnヲbソ© AM ケ`・リョノI pセクチn。MスミアN ISS カ}テ]ウwゥ 特 NセクチnI ワウフ、pエコヲずm-
- スユヴュオカqゥホウ]ゥw MEGA BASS ゥM AVLS カ}テ テ、」シンナ TY©ュオケq・ュ-ウoイヌアアサsゼァ@アNァ ワアzナ・イガコュオカq-

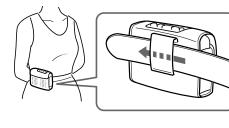
I • スミ、ナ・ホ、Gョ ニサフ。]TYPE II。^ゥホェ ン。]TYPE IV。^オヤエココマア aソ©ュオー

●・赤ウチァJュキソ©ュオョノ。Mスミ、ナアハウチァJュキセaェ qスuゥホ、鬣 O。

M・HァKイ」・ヘ、zツZセクチn
◆ ヲpェGオo・ヘシS・s。 MスミスユァCュオカq-

・ オウェライン・ハッシ・5。 M/スミメコノC コイルロー・・ホウチァ Jュキソ©コオョノ。 Mア q エュチ n セケナ・、」イ ち © コオェコチ n コオー。] G X 3 2 2。^





ınィマ・ホト箜a϶M

SAFETY NOTES ON THE UNIT

- To prevent fire or shock hazard, do not expose the unit to rain or moisture
- Do not use headphones/earphones while driving, cycling, or operating a motorized vehicle. It may create a traffic hazard and is illegal in some areas. It can also be potentially dangerous to play your headphones/earphones at high volume while walking, especially at pedestrian crossings. You should exercise extreme caution or discontinue use in potentially hazardous situations.
- To prevent shock hazards, never open the unit while it is connected to the power source.

- Do not use headphones/earphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your
- Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate to the people around you.

SAFETY NOTES ON POWER SOURCES

To avoid battery leakage, fire, damage, explosion, etc., follow the descriptions below.

 Do not carry dry batteries with coins or other metallic objects. It can generate heat if the positive and negative terminals of the batteries are accidentally contacted by a metallic object.

- Use only the Sony AC-E30HG AC power adaptor (not supplied).
- To disconnect the AC power adaptor, only use the plug and not the cable
- Do not charge a dry battery
- Check the **⊕** and **⊕** on the batteries, and be sure to insert them by matching the • and • on the battery to the diagram inside the battery compartment.

• When you are not going to use your Walkman for a long time, remove the batteries to prevent damage from battery leakage and corrosion.

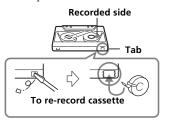
Location of parts and controls

About This Manual

The instructions in this manual are for WM-GX322 and WM-GX320. Before you start reading, check your model number. WM-GX322 is the model used for illustration purposes. Any differences in operation are clearly indicated in the text, for example, "GX322 $\,$

Precautions

- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or sand, moisture, rain, mechanical shock, or in a car with its windows closed
- Do not wind the headphones/earphones cord around the unit. The buttons may be kept pressed, causing unnecessary battery usage.
- Do not use cassettes longer than 90 minutes except for long continuous playback or recording.
- To prevent accidental recording, break off the cassette tab from side A or B. If you want to reuse the cassette for recording, cover the broken tab with adhesive tape.



- If the unit has not been used for a long time, set it in the playback mode to warm it up for a few minutes before inserting a cassette.
- For cleaning the case, use a soft cloth slightly moistened with mild detergent solution. Do not use alcohol, benzine or thinner

If you have any questions or problem concerning your Walkman, please consult your nearest Sony dealer.

Specifications

• Frequency range FM: 87.6-108 MHz (North, Central and South America) 87.5-108 MHz (Italy and Saudi Arabia) 65.0-107.9 MHz (Eastern Europe) 87.6-107.9 MHz (Other countries) AM: 530-1,710 kHz (North, Central and South America) 526.5-1,606.5 kHz (Italy and Saudi Arabia)

531-1,602 kHz (Other countries **Power requirements**

3V DC batteries R6 (AA) x 2/External DC 3V power sources Power output

Speaker: 110 mW + 110 mW (GX322 only) Headphones: 5 mW + 5 mW (at 10 % harmonic distortion)

WM-GX322: 116 x 89 x 39 mm ($4\frac{5}{8}$ x $3\frac{5}{8}$ x $1\frac{7}{16}$ inches) (w/h/d) incl. projecting parts and controls WM-GX320: 116 x 89 x 39.5 mm ($4\frac{5}{8}$ x $3\frac{5}{8}$ x $1\frac{7}{16}$ inches) (w/h/d) incl. projecting parts and controls

WM-GX322: Approx. 190 g (6.8 oz)

Approx. 265 g (9.4 oz) incl. batteries and a cassette WM-GX320: Approx. 175 g (6.2 oz) Approx. 250 g (8.9 oz) incl. batteries and a cassette

 Supplied accessories Stereo headphones or earphones (1)/Carrying case (1)/Stereo microphone (1)/Microphone stand (1)

Design and specifications are subject to change without notice.

Troubleshooting

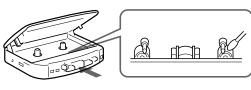
The sound is unstable or no audio.

- •Insert two R6 (size AA) batteries properly.
- •Replace all batteries if they are weak

Poor tape playback quality.

•Clean the headphones/earphones plug.

•Dirty heads. Clean the heads and tape path with a cotton swab slightly moistened with cleaning fluid or alcohol.

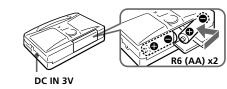


The volume is not turned up.

• AVLS is set to LIMIT.

Preparations

To Insert batteries



Battery life (approximate hours) (EIAJ*)

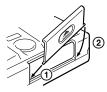
	Sony alkaline LR6 (SG)	Sony R6P (SR)
playback	22	7
radio	48	16
mic recording	11	3.5
radio recording	10	3

Using headphones/earphones

* Measured value by the standard of EIAI (Electronic Industries Association of Japan). (Using a Sony HF series cassette tape)

Notes

- The BATTERY indicator dims when the batteries become weak or exhausted. Replace them with new
- The battery life may shorten depending on the operation of the unit.
- · For maximum performance we recommend that you use alkaline batteries
- If the battery compartment lid comes off, attach it as



To use external power

- For house current: Connect AC-E30HG AC power adaptor (not supplied) to the DC IN 3V jack
- Specifications for AC-E30HG varies for each area. Check your local voltage and the shape of plug before purchasing.



Listening to the radio

connect the headphones/earphones even when

1 Set FUNCTION to AM or FM.

2 Tune to the station you want.

Set FUNCTION to TAPE(RADIO OFF).

To improve broadcast reception

For AM, reorient the unit itself.

FM

AM

Note

adjust FM ST/MONO or FM DX/LOCAL.

For FM, extend the headphones/earphones cord or

If the broadcast becomes noisy when a cassette with a

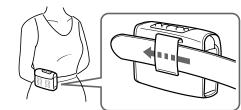
metallic shell or label is inserted, remove the cassette.

To turn off the radio

using the speakers. (GX322)

Since the headphone cord serves as an FM antenna,

To use the carrying case



Recording

1 Insert a TYPE I (normal) tape with the side you want to record facing forward.

Set DIR to ►.

When DIR is set to **◄**, you cannot press



To record from the radio Set FUNCTION to AM or FM.

To record from the microphone



4 To record from the radio Tune to the station you want.

Connect the supplied microphone to MIC(PLUG IN POWER) jack.

The recording level is automatically adjusted.



Set PAUSE to the direction of the arrow during recording, the recording will pause. To record, set PAUSE to the opposite direction of the arrow.



To stop recording

To record on the reverse side

Turn over the tape after recording stops on the

When using the supplied microphone

 \bullet To reduce noise while recording AM programs, set ISS to the position that most decreases the noise.

• Adjusting the volume or setting MEGA BASS and

• Do not use a CrO2 (TYPE II) or metal (TYPE IV) tape

• When recording with the microphone, do not place it

• When recording with the microphone, the sound to

be recorded cannot be heard through the speakers.

AVLS will not affect the recording level. These

controls will change the sound level you hear.

near a lamp cord or a fluorescent lamp to avoi

• If a howling occurs, turn down the volume.

forward side. The recording function works only on

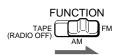
Press ■ STOP.

the forward side.

Notes

for recording





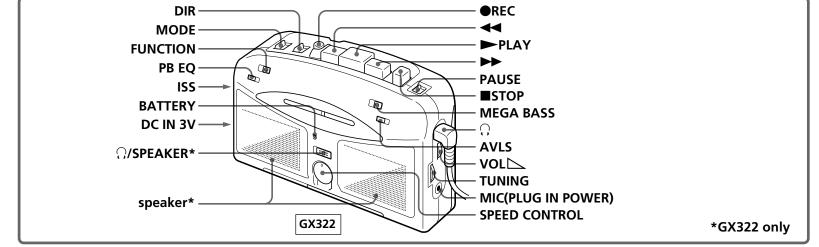
Set FUNCTION to TAPE (RADIO OFF).



To record from the microphone

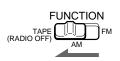
5 Press ● REC.

To pause a recording

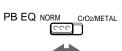


Playing a tape

1 Set the FUNCTION to TAPE(RADIO



2 Set PB EQ (playback equalizer) to match



3 Insert a cassette and press ► PLAY.





Press or set Stop playback* ■ STOP Fast-forward **▶** or **◄** or rewind the tape* Change sides Play both sides once MODE to -Play both sides MODE to 🗢 <u>repe</u>atedly

* When the tape ends, the depressed button ► PLAY is released automatically (Auto shut-off function).

**Notes on fast-forward and rewind • Check tape direction and choose ▶▶ or ◀◀

• If you leave the unit after the tape has been wound or rewound, the batteries will be consumed rapidly. Be sure to press .

To use the speakers (GX322 only)

Set ∩/SPEAKER to SPEAKER. The sound will play from the speakers and no sound from the headphones/earphones. When the speakers are in use, the AVLS and MEGA BASS function will not operate.

To limit the maximum volume automatically

Set AVLS (Automatic Volume Limiter System) to LIMIT. The maximum volume is kept down to protect your ears, even if you turn the volume up. To cancel the AVLS function, set AVLS to NORM.

ullet To switch the playback side, set DIR to ullet or ullet• To select the direction of the tape, set MODE to \longrightarrow

 To emphasize deep bass sound, set MEGA BASS to MAX or MID.

to play both sides of the tape once, or to play

Notes

• When you set AVLS to LIMIT;

both sides repeatedly

- the MEGA BASS effect is reduced.

- turn down the volume, if the bass-boosted sound becomes distorted or unstable • Do not open the cassette holder while the tape is

Adjusting the Playback speed

You can choose from approximately +25% to -20%

Turn SPEED CONTROL to the left (slows down) or to the right (speeds up). To put back to the normal speed turn SPEED CONTROL to the middle.

Playback Speed	Turn the knob		
Slow speed	to the – direction		
Fast speed	to the + direction		
Normal speed	to the middle		

• You cannot change the recording speed by the SPEED CONTROL.